

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,633,051 B1  
APPLICATION NO. : 09/701699  
DATED : October 14, 2003  
INVENTOR(S) : Alan James Holloway, Kevyn B. Jonas and David A. Wright

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 8, line 12 (claim 1, lines 11-22), the word “hollow” should be deleted.

Please delete:

1. A surface sensing device for use in position determining apparatus and which includes a hollow stylus having a workpiece-contacting tip and an optical transducer system, said optical transducer system comprising a light source for producing a beam of light directed internally of the stylus towards the tip of the stylus, an optical component mounted adjacent the tip of the stylus to return the beam, and a detector positioned relative to the returned beam to receive the beam and to produce a signal indicative of a lateral displacement of the stylus tip, wherein the optical component is a retro-reflecting device which is substantially insensitive to tilting of the stylus tip.

Replace with:

1. A surface sensing device for use in position determining apparatus and which includes a stylus having a workpiece-contacting tip and an optical transducer system, said optical transducer system comprising a light source for producing a beam of light directed internally of the stylus towards the tip of the stylus, an optical component mounted adjacent the tip of the stylus to return the beam, and a detector positioned relative to the returned beam to receive the beam and to produce a signal indicative of a lateral displacement of the stylus tip, wherein the optical component is a retro-reflecting device which is substantially insensitive to tilting of the stylus tip.

Column 10, line 4 (claim 16, lines 4-6), “claim 1” should read “claim 15”.

Please delete:

16. The surface sensing device according to claim 1, wherein the spot lies substantially at an end of the stylus remote from the workpiece-contacting tip.

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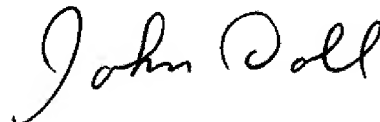
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Replace with:

16. The surface sensing device according to claim 15, wherein the spot lies substantially at an end of the stylus remote from the workpiece-contacting tip.

Signed and Sealed this

Twenty-first Day of July, 2009

A handwritten signature in cursive script that reads "John Doll".

JOHN DOLL  
*Acting Director of the United States Patent and Trademark Office*